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TM-(L)-715/043/00

TECHNICAL MEMORANDUM

(TM Series)

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Utility Program Descriptions

Milestone 11

Merge Change and Transfer Tapes (SMERGE)

bу

H. Frieden

12 March 1963

Approved

J. B. Munson

SYSTEM

DEVELOPMENT

CORPORATION

2500 COLORADO AVE.

SANTA MONICA

CALIFORNIA

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IDENTIFICATION

- A. Title: Merge Change and Transfer Tapes (SMERGE) Ident K42, Mod AB
- B. Author: H. J. Frieden, 28 February 1963, System Development Corporation

PURPOSE

SMERGE produces an updated 1604-160A Transfer Tape and a duplicate Backup Tape from the existing Transfer Tape and the Change Tape prepared by SWRTOUT. Initially, the existing Transfer Tape contains only an end-of-file mark and the first updated Transfer Tape consists of the information on the Change Tape sorted into the proper order. Thereafter, the existing Transfer Tape is the updated Transfer Tape from the last time SMERGE was operated.

USAGE

A. Calling Sequence

SMERGE is called by a standard COPII calling sequence with no parameters required. It is normally called by SWRTOUT via the successor call function.

B. Tapes Required

- Unit 16 contains the old Transfer Tape or a tape with an initial end-of-file. After it has been read, SMERGE prints a message to replace with a blank, and then halts. The blank becomes the new Transfer Tape.
- 2. Unit 17 contains the old Backup Tape. At the beginning of SMERGE, a message to replace with a blank is printed, followed by a halt. The blank becomes the new Backup Tape.
- 3. Unit 18 contains the Change Tape written by SWRTOUT. At the end of SMERGE, a message to replace with the SCHOPS Tape is printed, followed by a halt.

This tape is sometimes referred to as the Prepass Tape. All references in this document to the "Transfer Tape" are to the 1604-160A Transfer Tape.

- C. Expected On-Line Printer Messages
 - After printing each message, SMERGE will first space up the paper to facilitate the reading of the message, and then halt. Press start when ready to continue,
 - 1. REMOVE BACKUP TRANSFER TAPE ON UNIT 17, AND MOUNT BLANK
 - 2. REMOVE OLD TRANSFER TAPE ON UNIT 16, AND MOUNT BLANK
 - REMOVE RINGS FROM NEW TRANSFER AND BACKUP TAPES ON UNITS 16 AND 17
 IF SCHOPS REQUESTS ARE FORTHCOMING, MOUNT SCHOPS TAPE ON UNIT 18.

D. Error Messages

- In case of a read error on the old Transfer Tape, UNRECOVERABLE READ ERROR ON UNIT 16 MOUNT BACKUP TRANSFER TAPE ON UNIT 16 AND CONTINUE
- In case of read error after the old Transfer Tape was removed, UNRECOVERABLE READ ERROR ON UNIT **
 MOUNT OLD TRANSFER TAPE ON UNIT 16 AND CONTINUE
- 3. UNRECOVERABLE WRITE ERROR ON UNIT **, MOUNT NEW TAPE AND CONTINUE
- 4. END OF TAPE REACHED ON UNIT **, MOUNT LONGER TAPE AND CONTINUE
- 5. PARITY ERROR ON CHANGE TAPE, JOB ABANDONED
- 6. CHECKSUM ERROR ON CHANGE TAPE, JOB ABANDONED
- 7. RECORD ON CHANGE TAPE LONGER THAN 512 WORDS, JOB ABANDONED
- 8. RECORD ON CHANGE TAPE HAS ILLEGAL FORMAT, JOB ABANDONED
- If the Change Tape is in error, it must be regenerated. Mount the old Backup and Transfer Tapes and re-run all programs which were used to generate the Change Tape.

E. Change Tape Format

- 1. Maximum record size is 512 words.
- 2. Header Records
 - a. A Header Record is identified by a first word of 01061204 40626220.

- b. Vehicle number, in 4-bit BCD, is in the fourth word, bits 0-15.
- c. Revolution number, in 4-bit BCD, is in the fourth word, bits 24-39.
- d. Station number, in binary, is in the third word, bits 12-17.

3. Message Records

- a. A Message Record is identified by 7777 in bits 36-47 of the first word.
- b. Message type, in binary, is in the first word, bits 24-29.A message type of 00 is illegal.
- c. The message is for the vehicle, revolution, and station of the preceding Header Record.
- 4. The tape is ended by an end-of-file mark.

F. Transfer Tape Format

The Transfer Tape has the same format as the Change Tape, but it is ordered by message type within station within revolution within vehicle.

G. Backup Tape Format

The Backup Tape is a copy of the Transfer Tape.

METHOD

SMERGE initially requests the operator to remove the old Backup Tape and mount a blank. All tapes are then rewound. Changes are read into memory from the Change Tape until an end of file is reached or until memory is filled. (Memory will be filled by 1000 records or 20000 words of information.) The changes are sorted into order of message type within station within revolution within vehicle.

The Transfer Tape is then merged with the changes in memory, wracing the updated tape on the unit which held the old Backup Tape. Any message block on the existing Transfer Tape which has a corresponding entry on the Change Tape is replaced by the new information. New message blocks

for a particular vehicle, revolution, and station are added in order of message type.

At the end of the first pass, the operator is requested to remove the old Transfer Tape and mount a blank. Additional merges are required if the information on the Change Tape could not all fit into memory at one time. The input and output tapes for each pass alternate between units 16 and 17. When the final merge is done, the updated Transfer Tape is copied onto the Backup Tape. SMERGE requests the operator to file protect the new tapes before returning to MTCII.

If an unrecoverable read error occurs on the Change Tape, no recovery is possible. If an unrecoverable read error occurs on the first pass over the Transfer Tape, SMERGE asks the operator to mount the Backup Tape, and starts over. If an unrecoverable read error occurs on a subsequent pass, SMERGE asks the operator to mount the old Transfer Tape, and starts over. An unrecoverable write error causes SMERGE to return to the beginning of the current merge, after asking the operator to mount a new output tape.

RESTRICTIONS

- A. Tape number 16 must be an existant Transfer Tape or a tape initialized by IRT.
- B. The code for message type cannot be 00.
- C. All records for a particular vehicle, revolution, station, and message type must appear contiguously on the Change Tape. Otherwise, the results will depend on the amount of information on the Change Tape. If the information on the Change Tape can all fit in memory at one time, non-contiguous blocks are added together. If it cannot, a non-contiguous block from a later memory load will replace a block from an earlier memory load.

TIMING

The time for the memory sort of the records on the Change Tape depends on the number of records, their initial order, and the type of records. 1000 records could take from 5-35 seconds, with an average time of 10-15 seconds.

The time to read the Change Tape, merge the changes with the existing Transfer Tape, and copy the Transfer Tape onto the Backup Tape, will be limited by the speed of the tapes.

STORAGE REOG (REMENTS

Program: 440 cells

Constants: 113 cells

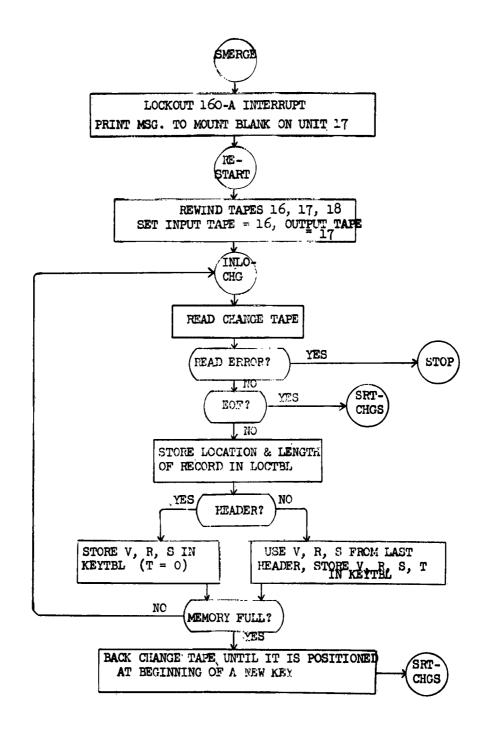
Storage: 23539 cells

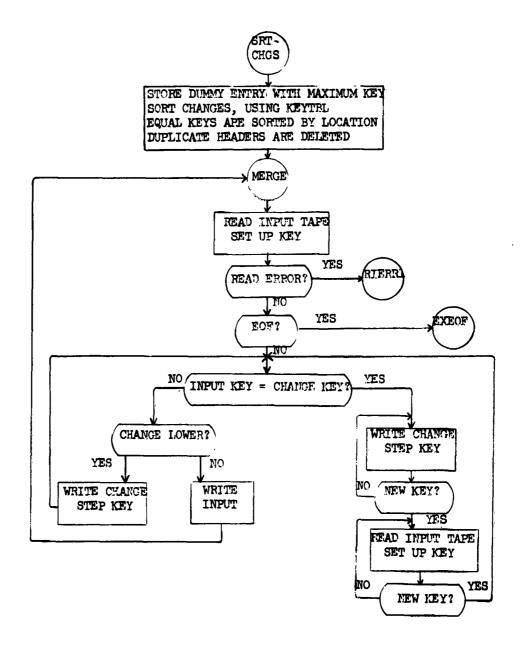
VALIDATION TESTS

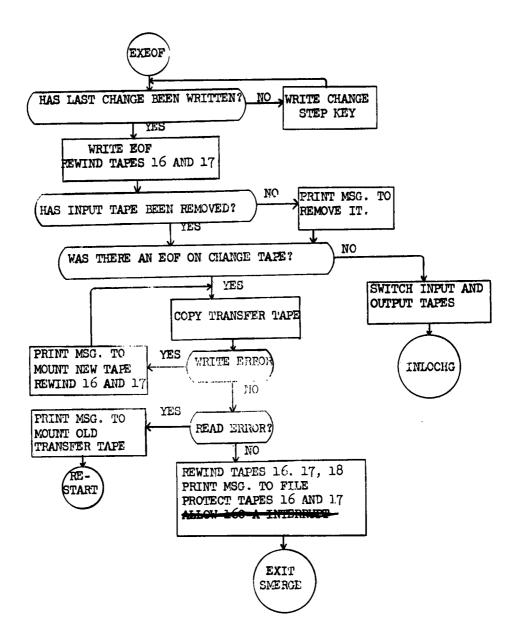
A Change Tape and Transfer Tape were prepared, and mounted on units 18 and 16. SMERGE was operated and produced a new Transfer Tape on unit 16. Tape dumps of the three tapes are shown in Appendices A, B, and C.

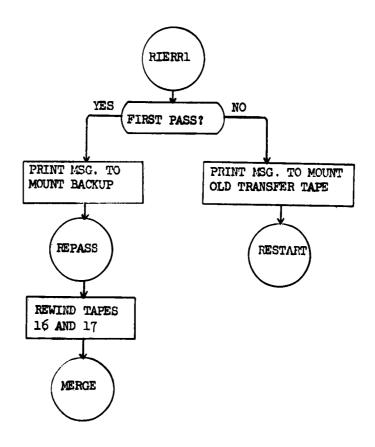
REFERENCE

- A. AF/CPL number for SMERGE is 76042.
- B. TM-891/001/00 (plus Modifications A and B) Combined Milestone 3-4 for the 1604 Augmentation Communication Programs.
- C. Utility Programs Descriptions Milestone 11, Write Change Tape (SWRTOUT), TM-(L)-715/044/00









FILE NO. 00001 RECORD NO. 00001 00000 01 0 6126* 00000 02 3 3 3 3 61 RECORD NO. 00002 RECORD NO. 00003	MO, 00001 D MO, 00001 32 3 32361 D MO, 00002 77 7 7 9211 00 0 00003 77 7 7 7011	MO, 60801 66654 D MO, 60801 66654 01 0 6126* 40 6 26220	08885(OCTAL) WORDS 6228 23 16145					
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F CO	52261 52361 00002 70211 00003	40 6 26220	23 5 16149					
RECOR	32361 00002 70211 00003 70311			16699 0 22	20 6 46123	61 0 30000	10008 0 00	10010 1 00
RECOR	00002 70211 00000 70311	32 3 32361 33 2 33009						
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RECOR	10000	0000 0 00	0000 0 00	10000 000	00000 0 00	11000 0 00	00 0 07566	66 4 47760
	7881	01000	UDOIOCOTAL) WORDS					
		77 7 70311 11 3 36600	0000 0 00	7000 0 00 00 00 0 0 00 0 0 0 0 0 0 0 0	00000 0 00	20000 0 00	TARRE	10000 0 10
0 00 0000	00000	00 0 00000 00 0 0000T	00000 0 00	100 0 00001	0000 0 00	19000 0 00	60 0 07466	04 4 47770
RECORD NO. 00004	00004	96000	DODDS (OCTAL) WORDS					
00000 01 0	.0219	01 0 61704 40 6 26220	23 5 16145	23 5 16149 22 6 66551	20 6 46123	20 6 46123 61 0 20608	20000 0 90	10 0 00003
00004 32 3	32300	32 3 32360 33 2 43005						
RECORD NO. 00005	00000	000100	OCCIOCIAL) WORDS					
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0 00 0 00 0	09080 0 00	00000 6 00	00000 0 00	100 0 00001	00000 0 00	00 6 00611	90 0 07566	99 4 47760
RECORD NO. 00006	90000	96000	90005(OCTAL) WORDS					
00000 01 0	01 0 61204	40 6 26220	23 5 16145	22 6 66551	20 6 46123	61 0 20600	10000 9 00	10000 0 00
00004 32 3	32301	32 3 32361 33 2 43005						
RECORD NO. 00007	00007	01000	DOOLD COCTAL) WORDS					
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/ // 00000	78211	77 7 76211 11 3 30000	00000 0 00	19999 9 90	11011 1 11	2011 1 11 11111 1 11103	***********	11111
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CHANGE TAPE

APPENDIX A

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77 7 7835 16 3 2 2306	0000	61 0 61204	40 6 26220	23 5 16149	22 6 66551	20 6 46123	61 0 30000	10000 00001	19000 0 00
#ECORD NO. 00015 77 7 70350 16 3 30000 00 0 00000 00 0 00001 80 0 99900 NO. 00014 90 0 99900 NO. 00015 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 6 46123 61 0 20000 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 6 46123 61 0 20000 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 46123 61 0 20000 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 46123 61 0 20000 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 46123 61 0 20010 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 46123 61 0 20010 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 46123 61 0 20010 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 6 16100 NO. 00014 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 6 16100 NO. 00014 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 22 6 65591 20 6 16100 NO. 00014 NO. 00014 90 1 0 12264 40 0 29220 23 3 16143 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000		33 2 33005						
77 7 7315		RECORD NO. 00013	010100	CTAL) WORDS					
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#ECORD NO. 08014	+0000	00 6 5 500	10000 0 08	08000 0 00	1000 0 00	0000 0 00	10000 0 00	00 0 07461	65 4 4777
NECORD NO. 00015 10 3 2 43005 10 1144 22 6 46951 20 6 44123 61 0 20010 00 0 00010 10 0 10010		PECORD NO. 00014	0)60000	CTAL) WORDS					
RECORD NO. 00015 PRECORD NO. 00016 PRECORD NO. 00017 PRECORD NO. 00010 PRECORD NO. 00010 PRECORD NO. 000111 PRECORD NO. 00010 PRECORD NO. 000111	00000	01 0 61204	40 6 26220	23 5 16145	22 6 66951	20 6 46123	61 0 20500	20001 0 10	10000 0 00
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RECORD MG, 000156	11114	0000 0000	100 0 0004	00000 0 00	00000 0 00	00000 0 00	10000 0 00	80 0 87561	61 4 47770
81 0 61204 48 6 26224 23 5 16145 22 6 66591 20 6 46123 61 0 20000 80 0 00001 32 3 32361 33 2 43007 RECORD NO. 00017 0001010CTAL) WORDS 90 0 00001		RECORD NO. 00016	036000	CTAL) WORDS					
32 3 3231 33 2 43005 PECORD NO. 00017 77 7 78216 16 3 30000 00 0 00000 00 0 00000 00 0 00000 00 0	00000	01 0 61204	40 6 26220	23 5 16149	22 6 66591	20 6 46123	61 0 20000	1000 0 00001	11 1 11011
RECORD NO. 00017 00010(0C7AL) WORDS 77 7 78216 16 3 30000 00 0 00000 00 0 00000 00 0 00000 00 0	10000		1						
77 7 78216 16 3 30000 00 0 00000 00 0 00000 00 0 00000 00 0		RECORD NO. 00017		CTAL) WORDS					
NECORD NO. 80622 25 3 38000 00 0 00000 00 00	00000	77 7 70216	16 3 30000	00000 0 00	00000 0 00	11101 1 11	00000 0 00	i	20000 0 00
RECORD NG. 88824 60005(GGTAL) WORDS 01 0 61284 40 6 26226 23 5 16145 22 6 64551 20 6 46123 61 6 2666 60 6 6666 32 3 32303 33 2 43005 RECORD NG. 88821 26 3 58880 00 0 88810 00 0 88810 00 0 88810 00 0 88810 00 0 0 0	+0000	İ	10000 0 00		00000 0 00	00000 0 00	10000 0 00	00 0 07561	61 4 47778
01 0 51214 40 6 26220 23 5 16145 22 6 66551 20 6 46123 61 0 26060 61 0 60662 32 3 32300 33 2 43605 RECORD NO. 00821 Deals(OCTAL) WORDS 77 7 76225 25 3 3600 00 0 60016 00 0 60000 01 0 60000 10 0 60161 01 0 7552 RECORD NO. 00822 Deals(OCTAL) WORDS 77 7 76225 25 3 5000 00 0 60010 01 0 60000 10 0 600		RECORD NO. 88828	0150000	CTAL) WORDS					
72 3 32300 33 2 43005 RECORD NO. 90821	0000	01 8 61284	40 6 26228	23 5 16149	15599 9 22	20 6 46123	97 6 20010	29869 9 98	10 1 11011
77 7 70225 29 3 50000	10000	32 3 32300	33 2 43009						
77 7 76225 25 3 3000 00 0 00014 00 0 00002 00 0 00000 10 0 00111 00 0 07552 00 0 00000 00 0 00014 00 00014 00 0 00000 00 0 00000 10 0 00111 00 0 07552 RECORD NO. 80622 80618(GCTAL) WORDS 77 7 76225 25 3 3000 00 0 00000 00 0 00000 00 0 00000 10 00000 10 0 07552		RECORD NO. 00021	000700	CTAL) WORDS					
RECORD MO. 80622 77 7 70225 29 5 50000 00 0 00000 00 0 00002 80 0 00000 00 0 00000 00 0 00000 00 0 0000	•	17 7 7 18225	29 3 30000	000000	11 1 10102	91000 0 10	21010 1 11	00000 00	11 6 01002
RECORD NO. 80622 86410(OCTAL) WORDS 77 7 70225 29 3 36816 06 68616 66 68616 66 686162 66 96816 60 8 88816 68 9 88818 68 9 88818 68 0 88818 68 6 6881 88 0 87552	1000	00000		00000 0 00	10110 1 00		10100 000	98 0 07552	52 4 47678
77 7 70225 25 5 50000 00 0 00000 00 0 00000 00 0 00002 00 0 00000 00		RECORD NO. BOBZZ	090700	CTAL) WORDS					
50 b 10100 01 0 10010 11 0 00010 01 0 10010 01 0 10111 10 0 07552	•	77 7 70225	29 3 30000	0000 000	21010 1 11	9999	98 0 99862	90000 0 00	21100 1 10
	1000	0000 000		1110 0 11		10100 0 00	19100 0 00	88 0 07552	52 4 4767

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	RECORD NO. 00002	ODG10COCTAL) WORDS	G COCTAL)	ORDS								
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0000	00000 0 00	10000 00001		00 0 00000	10000 0 00		0000 0 00000		00 0 00005	00 0 07566		66 4 47770
	RECORD NO. 00003	-	00010(OCTAL) WORDS	ORDS								
00000	77 7 70211	11 3 30000	i	00000 0 00	00 0 00005		0000 0 00		10000 0 00	00000 0 00		00000 0 90
0000	00000 0 00	00 0 00001	0 00	00000 0 00	10000 0 00		00000 0 00		00 0 00002	00 0 07566		66 4 47770
	RECORD NO. 00004	į	UDOIDIOCTAL) WORDS	ORDS								
00000	77 7 70211	11 3 30000	:	0000 0 00	100000000		00 0 00000	0 00	20000 0 00	00000 0 00		
10000	0000 0 00	00 0 00001		00 0 00000	1000 0 00		0000 0 00	00	20000 0 00	00 0 07566		66 4 47779
•	RECORD NO. 00005		DOOLOCTAL) WORDS	ORDS								
00000	77 7 70226	26 3 30000	0 00	0000 0 00	10000 0 00		00000 0 00	0 00	10000 0 00	00000000		10000 0 00
0000	00000 0 00	1000 0 00	0 00	00000 0 00	00 0 00002		0000 0 00	0	00 0 80001	00 0 07551		51 4 47770
•	RECORD NO. 00006	01000	DOCTORDS NORDS	ORDS								
00000	77 7 70226	26 3 30000	0	0000 0 00	10000 0 00		00 0 00000	10000 0 00	10000	00000 0 00		00 0 00001
*****	00000 0 00	00 0 00002	0 00	00 0 00000	10000 0 00		0 00000	10000 0 00	1000	00 0 07551		55 4 47770
T	PECORD NO. 00007	00010	DESTRUCTAL NORDS	ORDS								
00000	77 7 70231	31 3 30600	0 00	000000	10000 0 00		10010 0 00	7000 0 00	7000	00 0 00000		10 0 0001
:	00000 0 00	10000 0 00	0 00	00000 0 00	10000 0 00	07	00000	00 0 00002	10002	00 0 07546		46 4 47778
	PECORD NO. 00010	9000	OBGOSTOCTAL) WORDS	ORDS			:					
	01 0 61204	48 4 26220	23 5	5 16149	22 6 66551	80	6 46123	9 19	9 20066	00 0 00002		10000
+0000	32 3 32300	33 2 43005										
æ	RECORD NO. 00011	00010	GOSTOCTAL) WORDS	ORDS								

APPENDIX B OLD TRANSFER TAPE

### FECORD NO. 08812 08803 CCTAL) WORDS #### PRECORD NO. 08812 08803 CCTAL) WORDS #### PRECORD NO. 08813 13 3 3000		
RECORD NO. 08082 0808510CTAL) NORDS 01 0 61204 40 6 2620 23 5 16145 22 6 66551 32 3 32300 33 2 33005 23 5 16145 22 6 66551 32 3 32300 33 2 33005 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 6 06080 60 8 00001	01 00 0 07566 66 4 47770
RECORD NO. 00013 00010(OCTAL) WORDS 77 7 70311 11 3 30000 00 0 00000 00 0 00001 80 0 00000 00 0 00001 00 0 00000 00 0 00001 80 0 00000 00 0 00001 00 0 00000 00 0 00001 80 0 00000 00 0 00001 00 0 00000 00 0 00001 80 0 00000 00 0 00001 00 0 00000 00 0 00001 80 0 00000 00 0 00000 00 0 00000 00 0 0000		
#ECORD NO. 00013	20 6 46123 61 0 30000	00 00 00002 96 0 00001
RECORD NO. 00013 000100C7AL) NORDS 77 7 70311 11 3 30000 00 0 00000 00 0 00001 RECORD NO. 00014 000011 00 0 00000 00 0 00001 RECORD NO. 00015 0000010 00 0 00000 00 0 00001 RECORD NO. 00015 0000010 00 0 00000 00 0 00002 77 7 70211 11 3 30000 00 0 00000 00 0 00002 RECORD NO. 00012 16 3 3000 00 0 00000 00 0 00002 RECORD NO. 00012 16 3 3000 00 0 00000 00 0 00002 RECORD NO. 00012 16 3 3000 00 0 00000 00 0 00002 RECORD NO. 00020 00 0 00000 00 0 00000 00 0 00002 RECORD NO. 00020 00 0 00002 00 0 00000 00 0 00002 RECORD NO. 00020 00 0 00002 00 0 00000 00 0 00002 RECORD NO. 00020 00 0 00002 00 0 00000 00 0 0 00002 RECORD NO. 00020 00 0 00002 00 0 00000 00 0 0 00002 RECORD NO. 00020 00 0 00002 00 0 00000 00 0 0 00002 RECORD NO. 00020 00 0 00002 00 0 00000 00 0 0 00002 RECORD NO. 00021 0 00002 00 0 00000 00 0 0 00002 RECORD NO. 00021 11 3 30000 00 0 00000 00 0 0 00002 RECORD NO. 00021 11 3 30000 00 0 00000 00 0 0 00002		
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RECORD NO. 00014 10 0 00014 10 0 00015 11 0 01204 40 0 26220 23 5 10145 22 6 66551 12 3 3 32277 33 2 43029 12 0 01204 40 0 26220 23 5 10145 22 6 66551 12 3 3 32277 33 2 43029 RECORD NO. 00014 11 3 3000 00 0 00000 00 0 00000 12 1 1 1 3 3000 00 0 00000 00 0 00000 13 1 1 1 3 3000 00 0 00000 00 0 00000 14 0 00002 15 1 1 1 3 3000 00 0 00000 00 0 00000 16 0 00002 17 7 7 70216 16 3 3000 00 0 00000 00 0 00002 18 1 0 01204 00 0 0 00005 00 0 00000 00 0 00002 18 1 0 01204 0 0 0 00005 00 0 00000 00 0 00000 RECORD NO. 00021 00 0 00005 00 0 00000 00 0 00000 18 0 00002 00 0 0 00005 00 0 00000 00 0 00000 18 0 00021 0 00005 00 0 00000 00 0 00000 18 0 00021 0 00005 00 0 0 00000 00 0 00000 18 0 01204 0 0 00005 00005 00 0 00000 18 0 01204 0 0 00005 0000 00 0 00000 18 0 01204 0 0 00005 0000 00 0 00000 18 0 01204 0 00005 00000 00 0 00000 18 0 01204 0 0 00005 0000 00 0 00000 18 0 00002	00 0 00000 00 0 0000	01 00 0 07466 66 4 47770
PECORD NO. 00015 16 3 3000 00 0 00000 00 0 00001 RECORD NO. 00015 00005(OCTAL) WORDS 32 3 32277 33 2 43095 RECORD NO. 00016 49 6 26220 23 5 16145 22 6 66551 32 3 32277 33 2 43095 RECORD NO. 00017 33 2 43099 RECORD NO. 00017 00010(OCTAL) WORDS 77 7 70211 11 3 30000 00 0 00000 00 0 00002 RECORD NO. 00017 00010(OCTAL) WORDS 77 7 70216 16 3 3000 00 0 00000 00 0 00002 RECORD NO. 00022 29 3 30000 00 0 00000 00 0 0 00002 RECORD NO. 00021 00 0 00005(OCTAL) WORDS 80 0 0002 00 0 00005 00 0 00000 00 0 00000 RECORD NO. 00021 00 0 00005(OCTAL) WORDS 81 0 01204 40 6 26220 23 5 16149 22 6 66551 32 3 32301 33 2 43904 RECORD NO. 00022 00 000000 00 0 00000 RECORD NO. 00022 00010(OCTAL) WORDS 77 7 70215 11 3 30000 00 0 0 00000 00 0 0 00002		
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RECORD NO. DOOLG 00010(1007AL) MORDS 77 7 70211 11.3 30900 00 0 00000 00 00 00002 80 0 00000 00 0 00000 00 0 00000 00 0 0000		
Page 1		
RECORD NO. 00017 00010(0CTAL) WORDS 77 7 70216 16 3 30000 00 0 00000 00 0 00000 80 0 00000 00 0 00002 00 0 00000 00 0 00000 RECORD NO. 00021 000000000 00 00000 00 0 00000 80 0 00000 00 0 00000 00 0 00000 00 00000	2000 0 00 00000 0 00000	00 0 0000 0 0 0 0 0000
RECORD NO. 00017 00010(0CTAL) WORDS 77 7 70216 16 3 30010 00 0 00100 00 0 00100 80 0 00000 00 0 0010 001	00 0 00000 00 0 00007	01 00 0 07560 66 4 47770
77 7 78216 16 3 3000 0 0 0 00000 00 0 00000 RECORD NO. 00020 0 0 00002 00 0 00000 00 0 00002 77 7 70225 29 3 30000 00 0 90000 00 0 00000 RECORD NO. 00021 00 0 90005 00 0 90000 00 0 00000 RECORD NO. 00021 0005 0005 0001419 00005 32 3 32361 33 2 43004 RECORD NO. 00022 00014010 00005 77 7 76211 11 3 30000 00 0 0 00000 00 0 00002		
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77 7 70225 29 3 3000 0 0 0 0000 90 8 00002 84 9 09820 00 9 80809 00 0 98890 10 0 00000 81 0 61204 40 6 26220 23 5 16145 22 6 66591 32 3 32361 33 2 43004 RECORD NO. 08082 00010(00741) WORDS 77 7 78211 11 3 30800 00 0 00000 00 8 00802		
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RECORD NO. 80821 9808510CTAL! WORDS 81 0 61294 40 6 2620 23 5 16149 32 3 32361 33 2 43904 RECORD NO. 80822 808110(CCTAL) WORDS 77 7 78211 11 3 38880 06 0 86980	10000 0 00 00000 0 00	01 00 0 07552 52 4 47778
81 0 61204 48 6 26220 23 5 16145 32 3 32361 33 2 43004 RECORD NO. 88822 89010(0CTAL) WORDS 77 7 78211 11 3 38888 08 0 86000		
32 3 32361 33 2 43904 RECORD NO. 06622 00010(OCTAL) WORDS 77 7 70211 11 3 30000 00 0 00000	20 6 46123 61 0 20008	69 00 6 90081 59 6 99002
RECORD NO. 08622 00010(OCTAL) WORDS 77 7 70211 11 3 30000 00 0 00000		
77 7 78211 11 3 39866 00 0 06000		
	10000 0 00 00000 0 00	01 00 8 80000 80 0 60000
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END OF FILE

01.0 61207 40.0 20220 23 3 16149 22 6 46591 20 6 46423 64 0 20100 01 0 101011 20 20101 20 201	32 3 32301 SECORD NO, 00002 77 7 70211 00 0 00000 RECORD NO, 00003 RECORD NO, 00000 77 7 70211 00 0 00000 RECORD NO, 00010 RECORD NO, 00010	0 6 26220 13 2 43005 9001010	SUNDER THE MENTS					
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77 7 70211 113 30000 00 0 000001 00 0 00001 00 0 00001 00 0 00000 00	RECORD NO, 00003 RECORD NO, 00003 77 7 70211 00 0 00004 77 7 70216 77 7 70216 77 7 70216 77 7 70226 77 7 70226 77 7 70226 77 7 70226 77 7 70226 77 7 70226 77 7 70226 77 7 70226 80 0 00000 RECORD NO, 00000	17	CTAL) WORDS					
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RECORD NO. 00005	RECORD NO. 00005 77 7 70216 80 9 99990 77 7 70226 90 8 90900 77 7 70226 77 7 70226 80 9 99900 RECORD NO. 00011	11 3 30000	00000 0 00	2000 0 00	00000000	10900 0 00		
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77 7 70216 16 3 30000 00 0 00000 00 0 00000 00 0 00000 00 0	77 7 70216 90 90000 RECORD NO. 90006 90 9 90000 77 7 70226 90 9 90000 RECORD NO. 90000 77 7 70231 77 7 70231	000100	CTAL) WORDS					
RECORD MO, 00006	00 0 00000 77 7 70226 00 0 00007 77 7 70226 80 0 00000 77 7 70236 77 7 70231 77 7 70231 77 7 70231			00000 0 00	0	00 0 00000	00000000	2000 0 0000
RECORD MO, 00006 77 7 70226 26 3 30000 90 8 00001 10 1 00001 1	RECORD NO. 00006 77 7 70226 90 6 9090 77 7 70226 90 9 9990 RECORD NO. 00010 77 7 70231 77 7 70231	10 00004	0000 0 00	00000 0 00	90000 0 00	10000 0 00		62 4 47770
77 7 70226 26 3 30000 00 0 00000 00 0 00002 00 0 00000 00	77 7 70226 00 8 00900 00 8 00900 77 7 70226 00 0 00000 77 7 70231 00 0 00000 RECORD NO. 00013	000100	CTAL) WORDS					
PECORD MO, 00007 00 0 00001 00 0 00000 00 0 00001 00 0 00000 00	80 8 80800 77 7 78226 80 8 8880 RECORD NG, 90919 80 8 80900 RECORD NG, 80813	m	0000 0 00	00 0 00001	0000 0 00	00 0 00001	00000 0 00	10000
RECORD MO, D0807	RECORD NO. 00007 77 7 70226 00 0 00000 RECORD NO. 00010 77 7 70231 00 0 00000		0000 0 00	00 0 00005	00000 0 00	100 0 0 00	00 0 07551	51 4 47770
77 7 70226 26 3 30000 00 0 00000 00 0 00001 00 0 00000 00	77 7 78226 80 0 00000 RECORD NG, GGGLG 77 7 70231 80 0 00000 RECORD NG, D0015	000100	SCTAL) WORDS					
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RECORD NO, 00010 OD 00100CTAL) WORDS 77 7 70231 31 3 39000 00 00000 00 00001 00 00001 00 00000 00 00001 00 00000 00 00001 00 0 00000 00 00001 00 0 00000 00 0 00001 00 0 00000 00 0 00001 00 0 00000 00 0 00001 00 0 000000 00 0 00000 00 0 00000	77 7 70231 77 7 70231 99 6 9099 RECORD NO. 99913	00 0 00002	00 00 00 00	00 0 00001	00 0 00000	10000 0 00	00 0 07551	51 4 47770
77 7 70231 31 3 30000 00 0 00000 00 0 00001 00 0 00001 00 0 00000 00	77 7 70231 80 8 8088 RECORD NO. 88813	900100	OCTAL! WORDS					
RECORD NO. DEGLE OF GEORGE	RECORD NO. BOBIL			00 0 00001	•			00 0 00001
RECORD NO, DOBLE 1	RECORD NO. BOOLS	00 0 00001	00000 0 00	100 0 00001	000000000	00 0 00002	00 0 07546	46 4 47770
32 3 32301 33 2 33005 RECORD NO, 80812 13 3 2 30007 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	946.4	00000	OCTAL) WORDS					
72 3 32301 33 2 33005 RECORD NO. 80812	10 01584			22 6 66551	20 6 46123	61 6 30666	10 0 00001	10000 0 00
RECORD NO. 80812 Ug010(OCTAL) MORDS 77 74211 11 3 36804 00 80808 08 8 80801 08 8 8	32 3 32301	~						
77 7 76241 11 3 30000 00 0 00000 00 0 00001 00 0 00000 00	RECORD NO. 80012	000100	OCTAL) WORDS					
66 B B055 0 8 8505 0 0 0 0 0 0 0 0 0 0 0 0 0 0	77 7 76211	11 3 30000	00000 0 00	10000 0 00		10000 0 00		10 0 00003
	00000 4 40 70000	00 0 01000	00 0 0000	10000 000		10 0 00011	90 8 07566	66 4 47760

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1	00000	00 0 00001	00000 0 00	00 0 00001	00830 0 00	00 0 00001	00 0 07466	66 4 47770
	9	1	00010(OCTAL) WORDS					
00000	77 7 70316	16 3 30000	00 0 00000	1000 0 00	90000 0 00	00 0 00001	00000 0 00	10000 0 00
1000	00000 0 00	00 0 00001	00000 0 00	00 0 00001	00000 0 00	00 0 00001	00 0 07461	61 4 47771
	RECORD NO. 00015	950000	DODOSCOCTAL) WORDS					
00000	01 0 61204	40 6 26220	23 5 16149	22 6 66551	20 6 46123	61 0 20000	00 6 00002	00 0 00001
10000	32 3 32300	33 2 43005						
-	RECORD NO. 00016	000100	ODDIOCOCTAL) WORDS					
00000	77 7 70211	11 3 30000	00000 0 00	10000 00001	00000 0 00	10000 0 00	00000 0 00	20000 0 00
4000	00000 0 00	00000 0 00	00000 0 00	10000 0 00	00000 0 00	00 0 00017	99 0 01366	99 4 47760
۱ (RECORD NO. 00017		DODIDIOCTAL) WORDS					
00000	77 7 70216	16 3 30000	0000 0 00	00000 0 00	00000 000	00000 0 00	00000 0 00	20000 0 00
0000	00000 0 00		00000 0 00	0000 0 00	0000 0 00	00 0 00001	80 0 07561	61 4 47770
•	RECORD NO. 00020		DODIDIOCTAL) WORDS					
00000	77 7 70225	25 3 30600	00000 0 00	00 0 00005	00000 0 00	00 0 00002	00 0 00000	20000 0 00
40000	00000 0 00	00000 0 00	0000 0 00	00000 000	00000 0 00	00 0 00101	00 0 07552	52 4 47670
	RECORD NO. 00021	00000	ODDIDCOCTAL) WORDS					
00000	77 7 70225	25 3 30000	00000 0 00	00 0 00005	00000 0 00	20000 0 00	00000 0 00	20000 0 00
10000	0000 0 00	00000 0 00	0000 0 00	00 0 00000	00000 0 00	00 B 00101	00 0 07552	92 4 47670
	RECORD NO. 00022		OGGOSTOCTAL) WORDS					
00000	01 0 61204	40 6 26220	23 5 16145	22 6 46551	20 6 46123	61 0 30000	80 8 08002	10000 0 00
4000	32 3 32300	33 2 33005						
	RECORD NO. 00023		OBOLOCTAL! WORDS					
1000	77 7 7 70311	11 3 30000	00000 0 00	100 0 00001	00000000	20000 0 00	00000 0 00	10000 0 00
****	0000 0 00	1000 0 0001	00000 0 00	1000 0 00001	00000 0 00	00 0 00001	90 0 07466	66 4 47770
	RECORD NO. 00024		90010COTAL) WORDS					
	77 7 70316	16 3 30000	0000 0 00	1000 0 00001	00000 0 00	00 0 00001	0000 0 00	00 0 00001
1000	00000 0 00	00 0 00001	00000 0 00	10000 0 00	0000 0 00	10000 0 00	00 0 07461	61 4 47771
	RECORD NO. 00025		ODDOSCOCTAL) WORDS					
••••	01 8 61204	49 6 26220	23 5 16145	22 6 66551	20 6 46123	61 0 20080	10 0 0003	10 0 00001
7000	32 3 32277	33 2 43005						
1	RECORD NO. 00026	 	BESTEROCTAL) WORDS	1	1	1 - 1		

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Scientific rept., TM(L)-715/043/00,
by H. Frieden. 12 March 1963, 19p.
(Contract AF 19(628)-1648, Space
Systems Division Program, for Space
Systems Division, AFSC)

Unclassified report

DESCRIPTORS: Programming (Computers). Satellite Networks.

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